

DRILL HOLES

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BY: \$USERNAME\$

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE UPGRADING OF THE EXISTING PEDESTRIAN SIGNAL INDICATION TO AN AUDIBLE PEDESTRIAN SIGNAL WITH COUNTDOWN INDICATIONS ON THE WEST LEG OF THE INTERSECTION OF MD 704 AND HILL ROAD IN PRINCE GEORGE'S COUNTY. MD 704 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

NO CHANGE TO INTERSECTION OPERATION.

CONTROLLER REQUIREMENTS

THE EXISTING CONTROLLER, AMPLIFIERS AND ASSOCIATED HARNESS WILL REMAIN. INSTALL APS CONTROL UNIT IN EXISTING CABINET.

PROJECT CONTACTS

ASSISTANT DISTRICT ENGINEER-TRAFFIC  
(301) 513-7358

MR. AUGIE REBISH  
UTILITY ENGINEER  
(301) 513-7350

MR. WAYNE MOWDY  
ASSISTANT DISTRICT ENGINEER-MAINTENANCE  
(301) 513-7304

MR. RICHARD DAFF, SR.  
CHIEF-TRAFFIC OPERATIONS DIVISION  
(410) 787-7630

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF-  
TRAFFIC OPERATIONS DIVISION  
(410) 787-7631

MR. EDWARD RODENHIZER  
SIGNAL OPERATIONS  
(410) 787-7652

PHASE CHART

NO CHANGE TO IPHASING.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA

| ITEM NO. | QTY.   | DESCRIPTION  |
|----------|--------|--|
| 9570     | 8 SF   | SHEET ALUMINUM GROUND MOUNTED SIGN<br>- 1 EA. R4-7 (18"X24")<br>- 1 EA. R10-6a (24"X30") |
| 9571     | 1.5 SF | SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN<br>- 2 EA. R10-4(1) (9"X12")                   |

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHEDAND/OR INSTALLED BY THE CONTRACTOR

| ITEM NO. | QTY.   | DESCRIPTION   |
|----------|--------|---|
| 1001     | 1 EA   | MAINTENANCE OF TRAFFIC  |
| 2002     | 3 CY   | TEST PIT EXCAVATION   |
| 5003     | 300 LF | 12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS    |
| 5004     | 75 LF  | 24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS    |
| 5005     | 600 LF | REMOVAL OF EXISTING PERMENANT PAVEMENT LINE MARKINGS - ANY WIDTH      |
| 6001     | 45 LF  | DEPRESSED CURB AND GUTTER   |
| 6002     | 10 LF  | STANDARD TYPE A COMBINATION CURB AND GUTTER                           |
|          |        | 12 INCH GUTTER PAN 8 INCH DEPTH                                       |
| 6003     | 550 SF | 4 INCH CONCRETE SIDEWALK  |
| 8006     | 1 EA   | 2-WIRE CENTRAL CONTROL UNIT   |
| 8014     | 2 EA   | APS PUSHBUTTON AND ASSEMBLY   |
| 8015     | 2 EA   | BREAKAWAY PEDESTAL POLE - ANY SIZE                                    |
| 8024     | 2 EA   | 16 INCH COUNTDOWN PEDESTRIAN SIGNAL                                   |
| 8028     | 1 EA   | REMOVE AND DISPOSE OF EQUIPMENT                                       |
| 8030     | 2 EA   | REMOVE FOUNDATION 12 INCH DEPTH                                       |
| 8031     | 40 LF  | 2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED                       |
| 8037     | 25 SF  | DETECTABLE WARNING SURFACE  |
| 8040     | 2 CY   | CONCRETE FOR SIGNAL FOUNDATION  |
| 8041     | 28 LF  | WOOD SIGN SUPPORTS 4 INCH X 4 INCH                                    |
| 8043     | 470 LF | NO 6 AWG STRANDED BARE COPPER GROUND WIRE                             |
| 8047     | 70 LF  | 3 INCH SCHEDULE 80 PVC CONDUIT - BORED                                |
| 8054     | 12 LF  | 1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE |
| 8062     | 1 EA   | FURNISH AND INSTALL ELECTRICAL HANDHOLE                               |
| 8063     | 8 SF   | INSTALL GROUND MOUNTED SIGN   |
| 8064     | 1.5 SF | INSTALL OVERHEAD SIGN   |
| 8070     | 2 EA   | GROUND ROD - 3/4INCH DIAMETER X 10 FOOT LENGTH                        |
| 8075     | 405 LF | ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED                      |
| 8076     | 355 LF | ELECTRICAL CABLE - 2 CONDUCTOR NO. 14 AWG                             |
| 8078     | 355 LF | ELECTRICAL CABLE - 5 CONDUCTOR NO. 14 AWG                             |
| 8080     | 800 LF | LOOP WIRE ENCASED IN FLEXIBLE TUBING NO. 14 AWG                       |
| 8081     | 204 LF | SAW CUT FOR SIGNAL - LOOP DETECTOR                                    |

EQUIPMENT LIST "C"

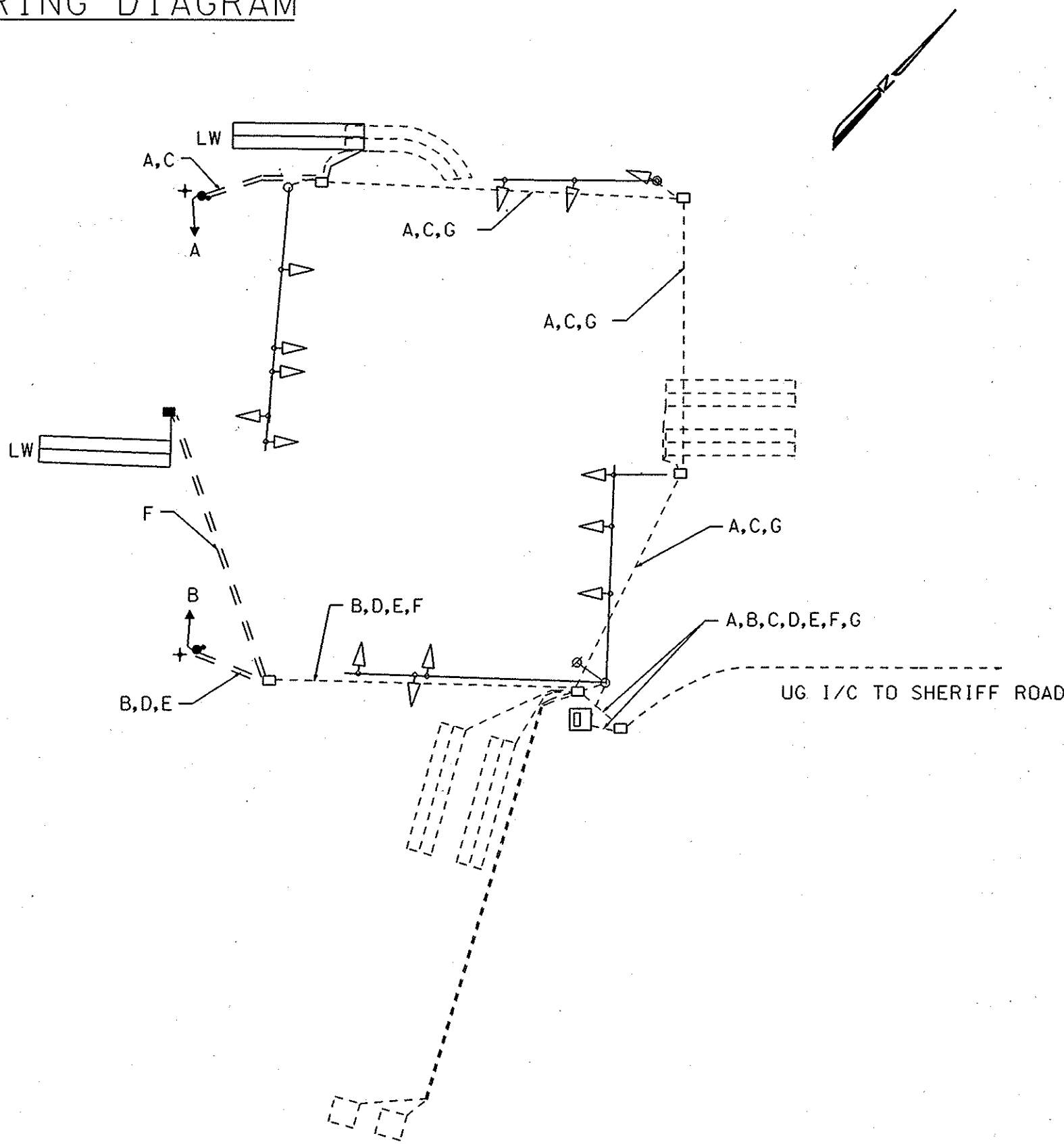
C. EQUIPMENT TO BE RETURNED TO THE SHA BY THE CONTRACTOR

| ITEM NO. | QTY. | DESCRIPTION |
|----------|------|-------------|
|----------|------|-------------|

NONE

ALL EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



LEGEND

- A,B - ELECTRICAL CABLE - 5 CONDUCTOR NO. 14 AWG
- C,D - ELECTRICAL CABLE - 2 CONDUCTOR NO. 14 AWG
- E - STRANDED BARE COPPER GROUND WIRE NO. 6 AWG
- F,G - ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED
- LW - LOOP WIRE NO. 14 AWG
- +
- PS - EXISTING POWER SOURCE

SHA

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 704 at Hill Rd /  
Southland Drive

SCALE NONE DATE 08/05 CONTRACT NO. AT7825185

DESIGNED BY JWB COUNTY PRINCE GEORGE'S

DRAWN BY JWB LOGMILE 16070401.29

CHECKED BY JWB T.I.M.S. NO. 6942

F.A.P. NO. TOD NO.

DRAWING NO. 908 C OF

SHEET NO. OF

TOD No: AT782-04  
SHA: PG694A52/B52